0145104 DBA Accession No.: 93-03156 PATENT Particular expressed sequence tag from human cDNA - corresponding to gene transcription product, and useful for gene tagging, chromosome mapping and tissue typing PATENT ASSIGNEE: U.S. Dept. Health-Human-Serv. 1993 PATENT NUMBER: WO 9300353 PATENT DATE: 930107 WPI ACCESSION NO.: 93-036325 (\q304) PRIORITY APPLIC. NO.: US 837195 APPLIC. DATE: 920212 NATIONAL APPLIC. NO.: WO 92US5222 APPLIC. DATE: 920619 LANGUAGE: English 315 Enriched oligonucleotides of specified DNA ABSTRACT: sequence, which correspond to particular expressed sequence (ESTs), are claimed along with their complementary sequences and allelic variations. The following are also claimed: (a) a construct comprising a vector and an enriched oligonucleotide; (b) a panel of at least 100 oligonucleotides; (c) an antisense oligonucleotide capable of blocking expression of the gene product of any of the oligonucleotide sequences; and (d) a triple helix probe for blocking expression of the gene product of the enriched oligonucleotides. In a preferred embodiment, the oligonucleotides correspond to transcription products of human genes and are markers for human genes transcribed in vivo. The oligonucleotides are grouped according to metabolic and functioning and developmental control. The ESTS may structural facilitate the tagging of most expressed human genes within a few yr at reduced cost compared with complete genomic sequencing. The ESTs could provide new genetic markers, nucleotide reagents and DNA-based diagnostic and therapeutic agents. The agents may be used for e.g. mapping gene locations or tissue typing. (199pp) DESCRIPTORS: human expressed sequence tag DNA sequence, antisense oligonucleotide, triple helix probe, appl. gene tagging, chromosome mapping, tissue typing mammal SECTION: GENETIC ENGINEERING AND FERMENTATION-Nucleic Acid Technology (A1)

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